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(54) Title: CHIMERIC MOLECULES CONTAINING A MODULE ABLE TO TARGET SPECIFIC CELLS AND A MODULE
REGULATING THE APOPTOGENIC FUNCTION OF THE PERMEABILITY TRANSITION PORE COMPLEX (PTPC)

(57) Abstract: A chimeric polypeptide has the formula: pTox-pTarg, wherein pTox is a viral apoptotic peptide, such as the Vpr
peptide of HIV-1 or a fragment of the Vpr peptide of HIV-1 containing the amino acid motif H(F/S)RIG that interacts with mito-
chondrial inner membrane, adenine nucleotide translocation (ANT) protein of a cell. pTarg is an antibody or an antibody fragment
that binds to the outer membrane of the cell. Binding of the chimeric polypeptide to the cell is followed by apoptosis of the cell. A
vector encoding a chimeric polypeptide and a recombinant host cell comprising the vector are provided. The chimeric polypeptide
is useful for targeting pTox to cells, such as cancer cells.

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